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(54) 1-BUTENE RANDOM COPOLYMER AND USE THEREOF

(57) Abstract:

PURPOSE: To provide the titled copolymer composed of 1-butene and an α -olefin, having narrow molecular weight distribution and compositional distribution, specific viscosity, melting point, crystallinity, solubility and NMR spectrum and excellent transparency and tensile characteristics and useful as a packaging film, etc.

CONSTITUTION: 1-Butene and a 3W20C α -olefin other than 1-butene are copolymerized in the presence of a catalyst composed of an indenyl group- containing zirconium compound and alumino-oxane to obtain the objective copolymer composed of 60W98mol% 1-

butene component and 2W40mol% α -olefin component, having an intrinsic viscosity $[\eta]$ of 0.5W6dl/g measured in decalin at 135°C, a molecular weight distribution (M_w/M_n) of ≤ 3 , a melting point of 40W130°C measured by differential scanning calorimeter and a crystallinity of 5W60% measured by X-ray diffraction, containing $\leq 1\text{wt}\%$ component soluble in boiling methyl acetate and $\leq 4 \times [\eta]^{-1.2}\text{wt}\%$ component soluble in acetone/n-decane mixture (1/1 by volume) at 10°C, free from the signal of two adjacent methylene chains between two adjacent tert-carbon atoms in the main chain measured by ^{13}C -NMR spectrum and having a standard deviation of compositional distribution of $\leq 10\text{mol}\%$.

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